



New Energy

New World

Worldwide Energy and Manufacturing USA, Inc.

AS-5M Amerisolar

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30 year warranty, AS-5M offers high-powered, reliable performance for solar projects, both on- and off-grid.

- Solar Cell: High efficiency solar cells ensure high performance of solar module and create maximum power output.
- Low iron tempered glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- Aluminum frame: Without screw, corner connection. 8 holes on the frame can be installed easily.
- Superior Junction box: Multi function junction box with water proof capabilities.
- Long lifespan: ≥ 30 Years.
- Tolerance: $+0 \sim 3\%$.
- Good performance of preventing from atrocious weather such as wind and hails.
- Resisting moisture and etching effectively, not effect by geology.
- The certificate issued by international authority: CE, TUV, IEC, UL, MCS PVCYCLE, CEC Australia listed, Israel Certificate and Korea Certificate.

Electrical characteristics

P_{max} , V_{oc} , I_{sc} , V_{mp} and I_{mp} at STC ($1000W/m^2$, $25 \pm 2^\circ C$, AM 1.5);

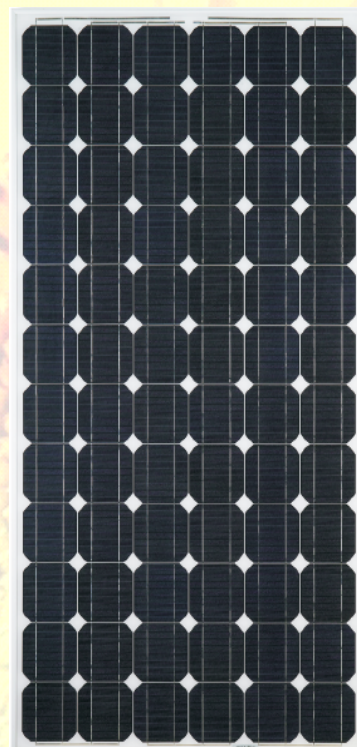
	175W	180W	185W	190W	195W	200W	205W
Maximum Power (P_{max})	175W	180W	185W	190W	195W	200W	205W
Open Circuit Voltage (V_{oc})	44.36V	44.53V	44.70V	44.87V	45.04V	45.21V	45.38V
Short Circuit Current (I_{sc})	5.28A	5.37A	5.45A	5.54A	5.63A	5.72A	5.81A
Maximum Power Voltage (V_{mp})	35.88V	36.08V	36.28V	36.48V	36.67V	36.86V	36.95V
Maximum Power Current (I_{mp})	4.88A	4.99A	5.10A	5.21A	5.32A	5.43A	5.55A
Module Efficiency (%)	13.71	14.10	14.49	14.88	15.27	15.67	16.06

Temperature Coefficients

Temperature Coefficients of P_m	-0.47 %/ $^\circ C$
Temperature Coefficients of V_{oc}	-0.33 %/ $^\circ C$
Temperature Coefficients of I_{sc}	+0.036 %/ $^\circ C$

Absolute Maximum Limits

Maximum System Voltage	DC 1000V
Module Operating Temperature	-40 $^\circ C$ to +85 $^\circ C$
Noct (DEGC.)	47 $^\circ C \pm 2^\circ C$



WARRANTY

- Product: 12 years
- Power Output:
90%----12 years
80%----30 years



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committed to
delivering innovative
energy solution

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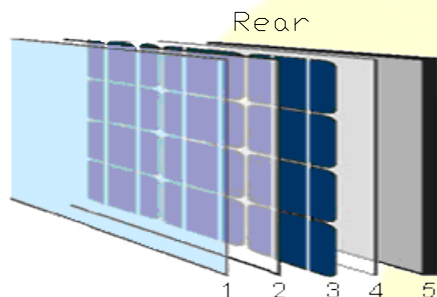
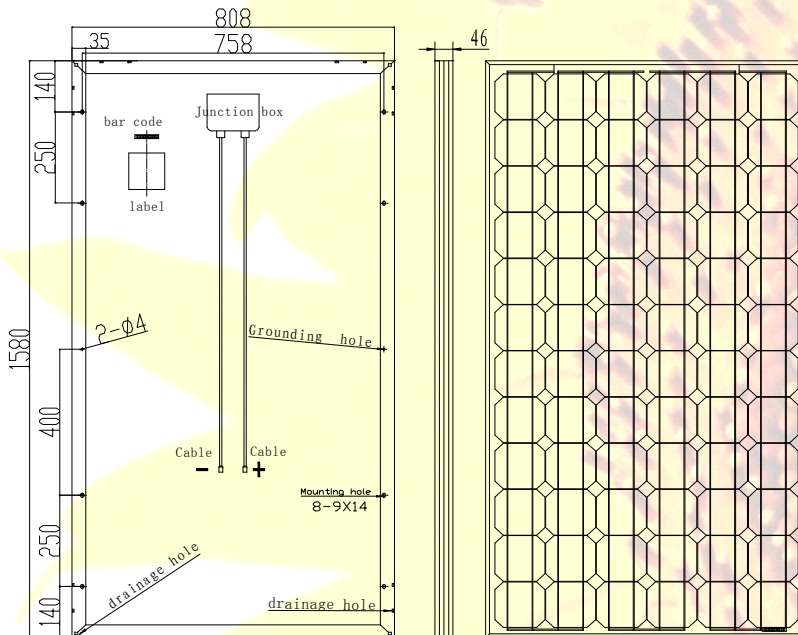
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Mechanical characteristics

Cell Technology	125mmx125mm [4.92inx4.92in]	Mono-crystal silicon
Number of Cells (Pcs)	72 (6x12)	
Dimensions	1580mmx808mmx46mm	
Weight	15.5kg	
Frame	Aluminium-alloy	
Length of Cables (mm)	900mm	
Allowable Hail Load	Steel ball fall down from 1m height	
Surface Maximum Load Capacity	60m/s(540kg/m ²)	

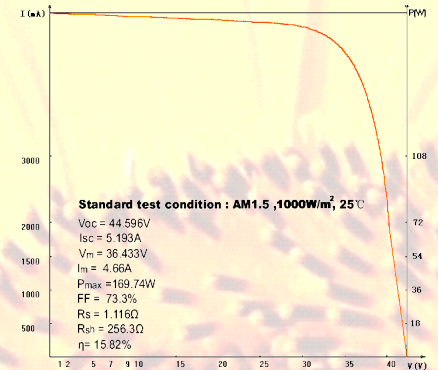
Basic Dimensions

ALL DIMENSIONS IN mm

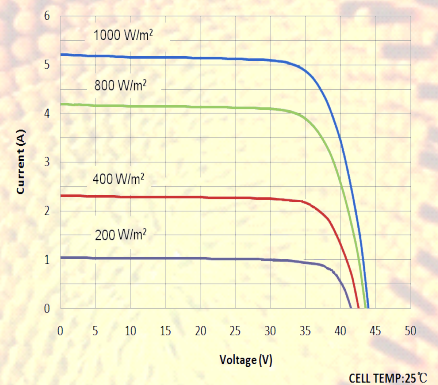


1. Front: tempered solar glass 3.2mm
2. EVA
3. 72 high efficiency solar cells 125mm X 125mm
4. EVA
5. Rear: laminate (weatherproof and waterproof)

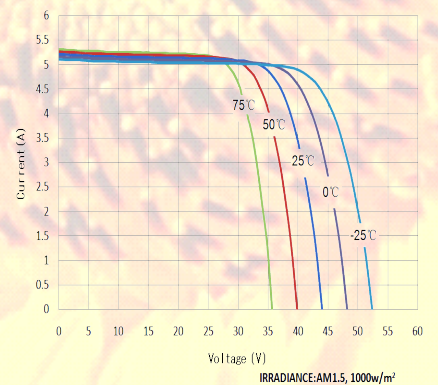
I-V curves



Module at STC



Various Irradiance Levels



Various Temperatures

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